

2S1036A1 (LiFePO₄)

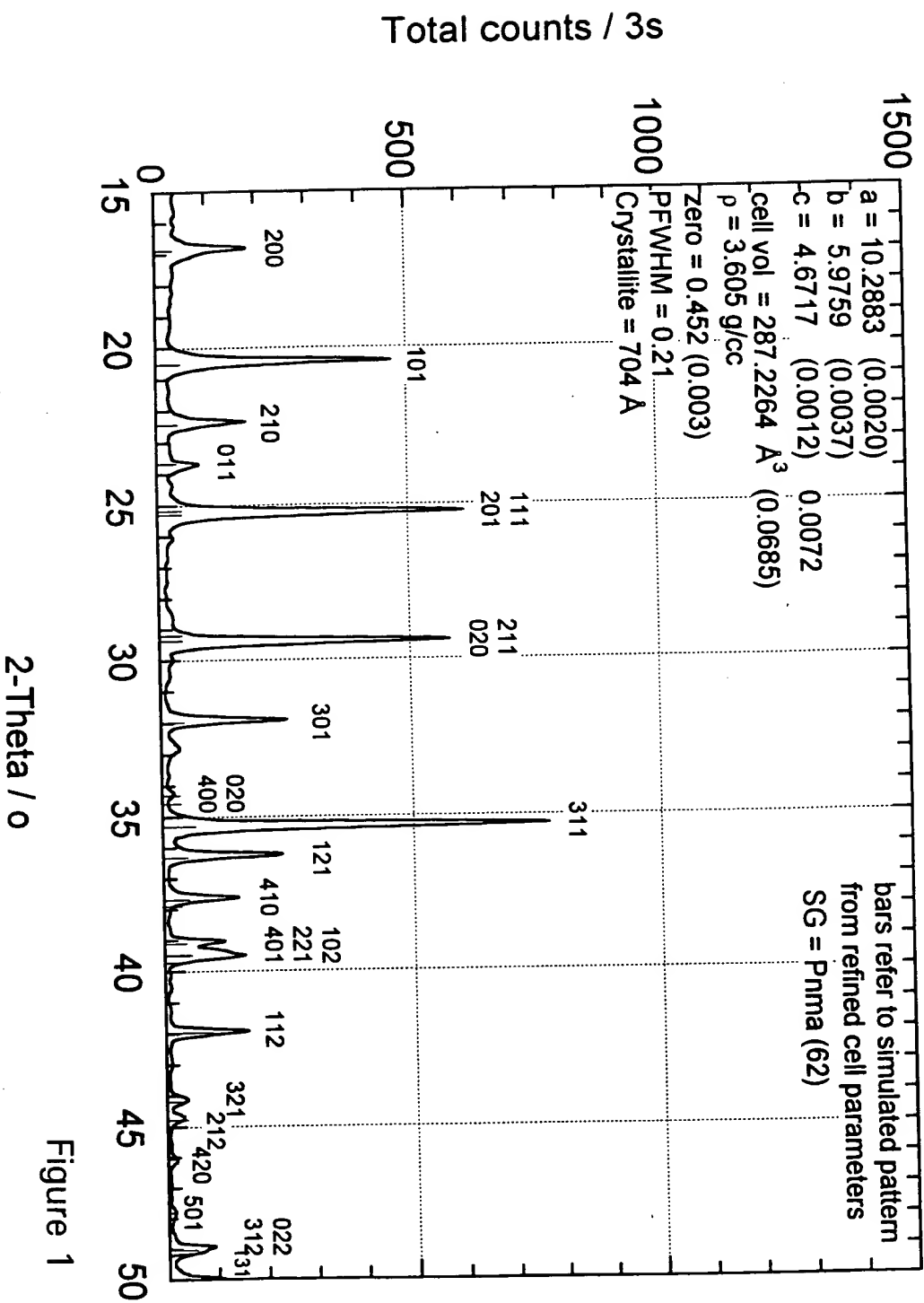


Figure 1

09484799.011800

LiFePO₄ 2.5 -4.0 V

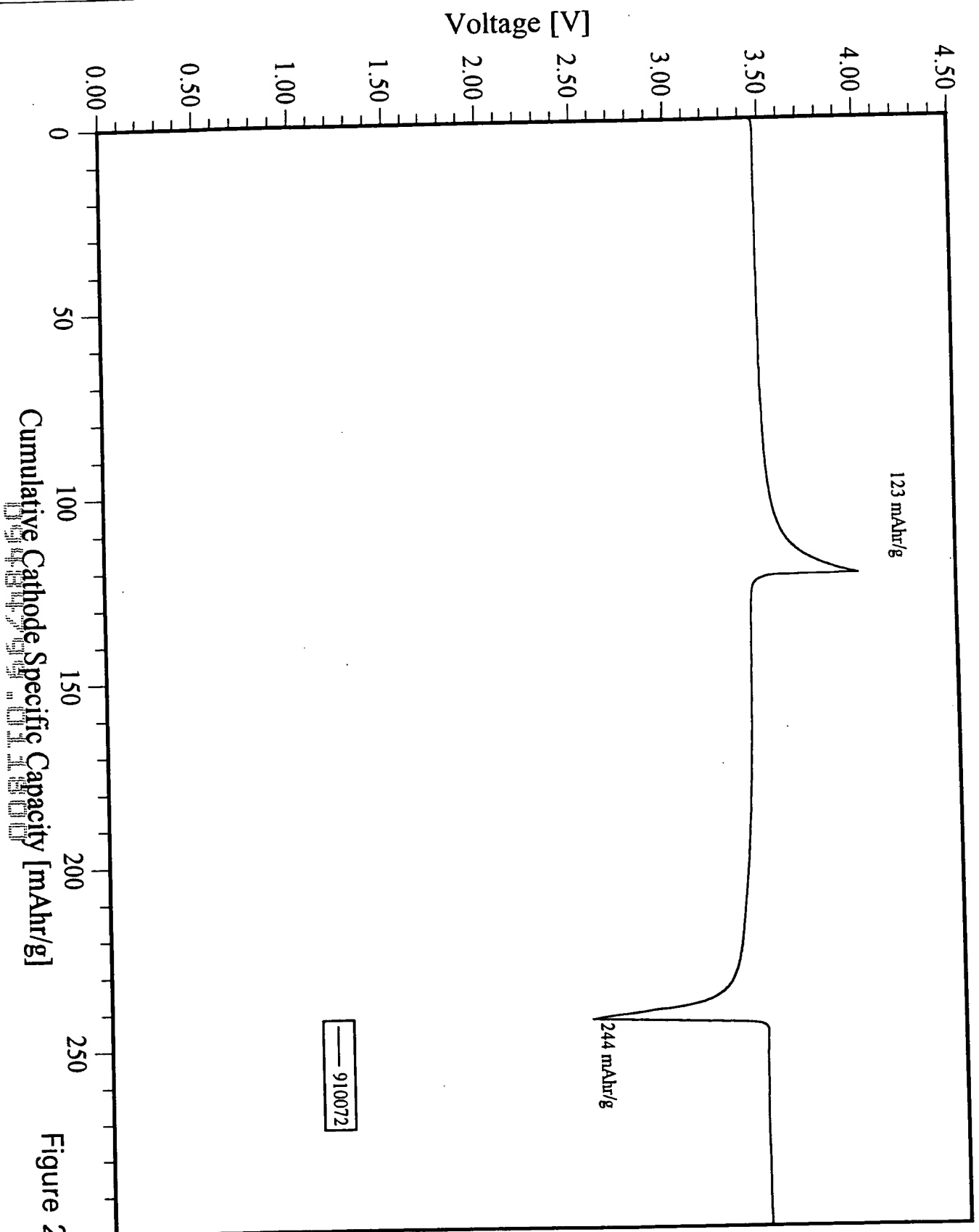


Figure 2

Carbothermal LiFePO₄ vs Li

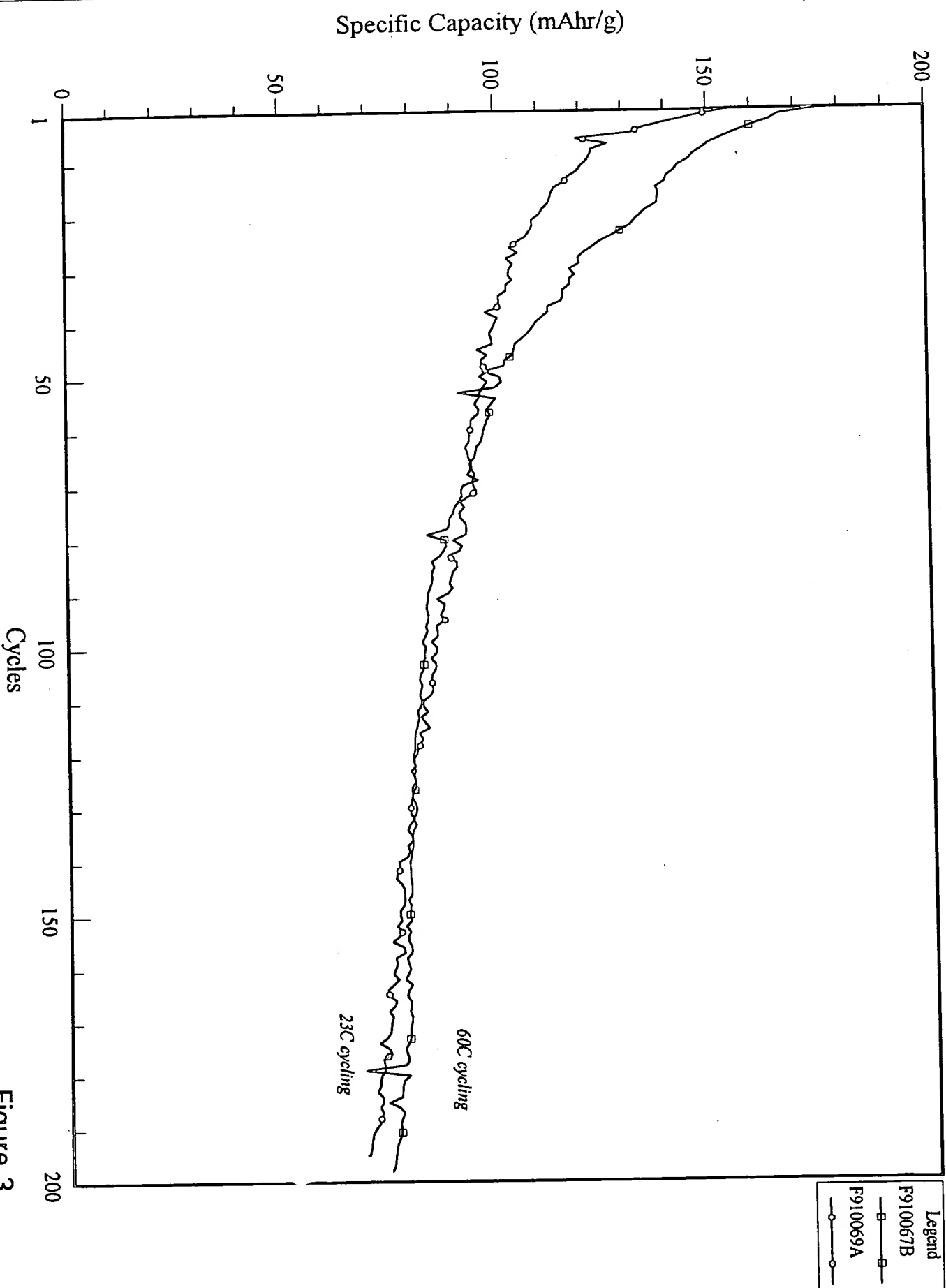


Figure 3

09484799.011800

1S0937A1 (LiFe_{0.9}Mg_{0.1}PO₄)

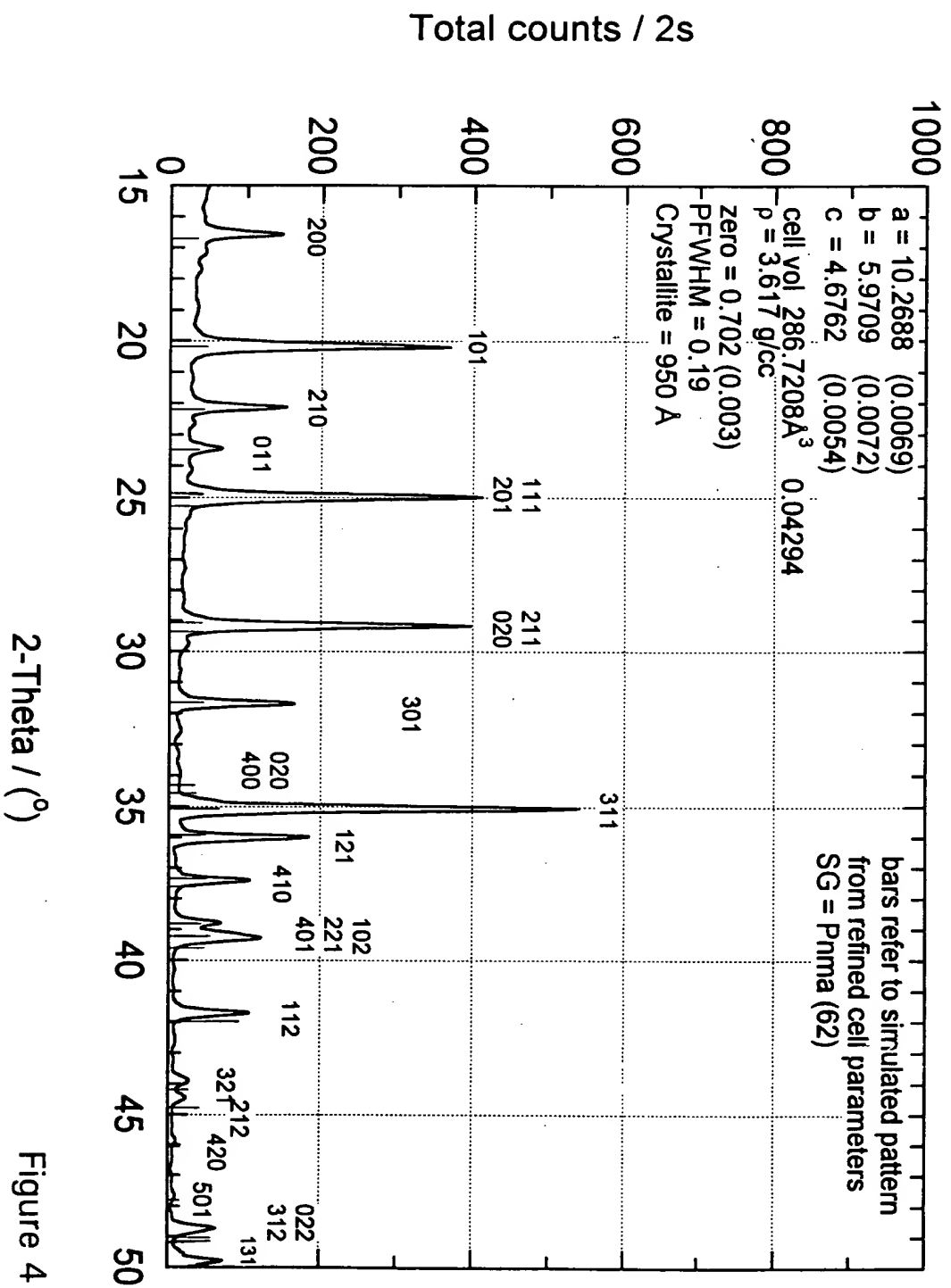


Figure 4

LiFe_{0.9}Mg_{0.1}PO₄ 2.5 - 4.0 V

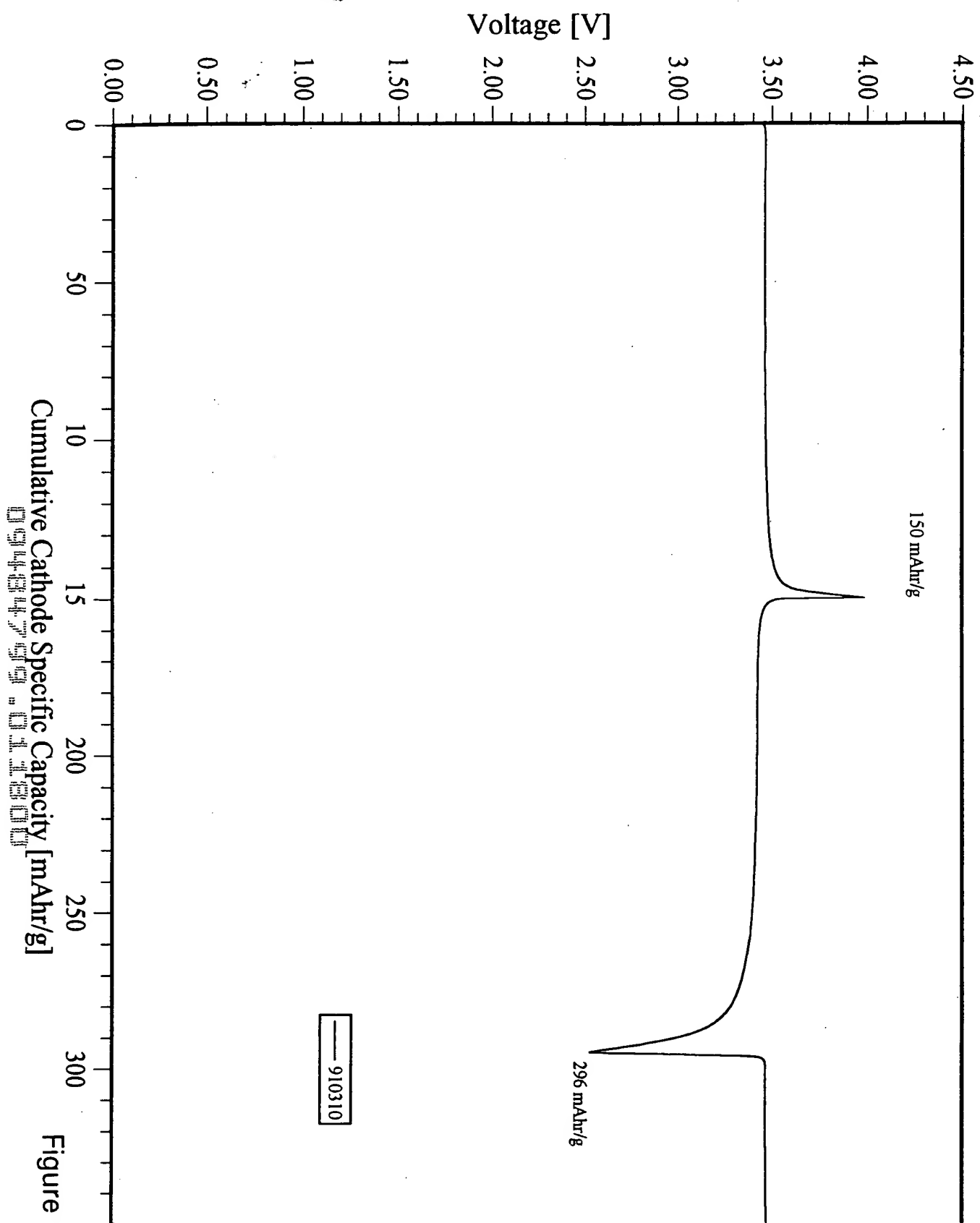


Figure 5

Carbothermal $\text{LiMg}_{0.1}\text{Fe}_{0.9}\text{PO}_4$ vs Li

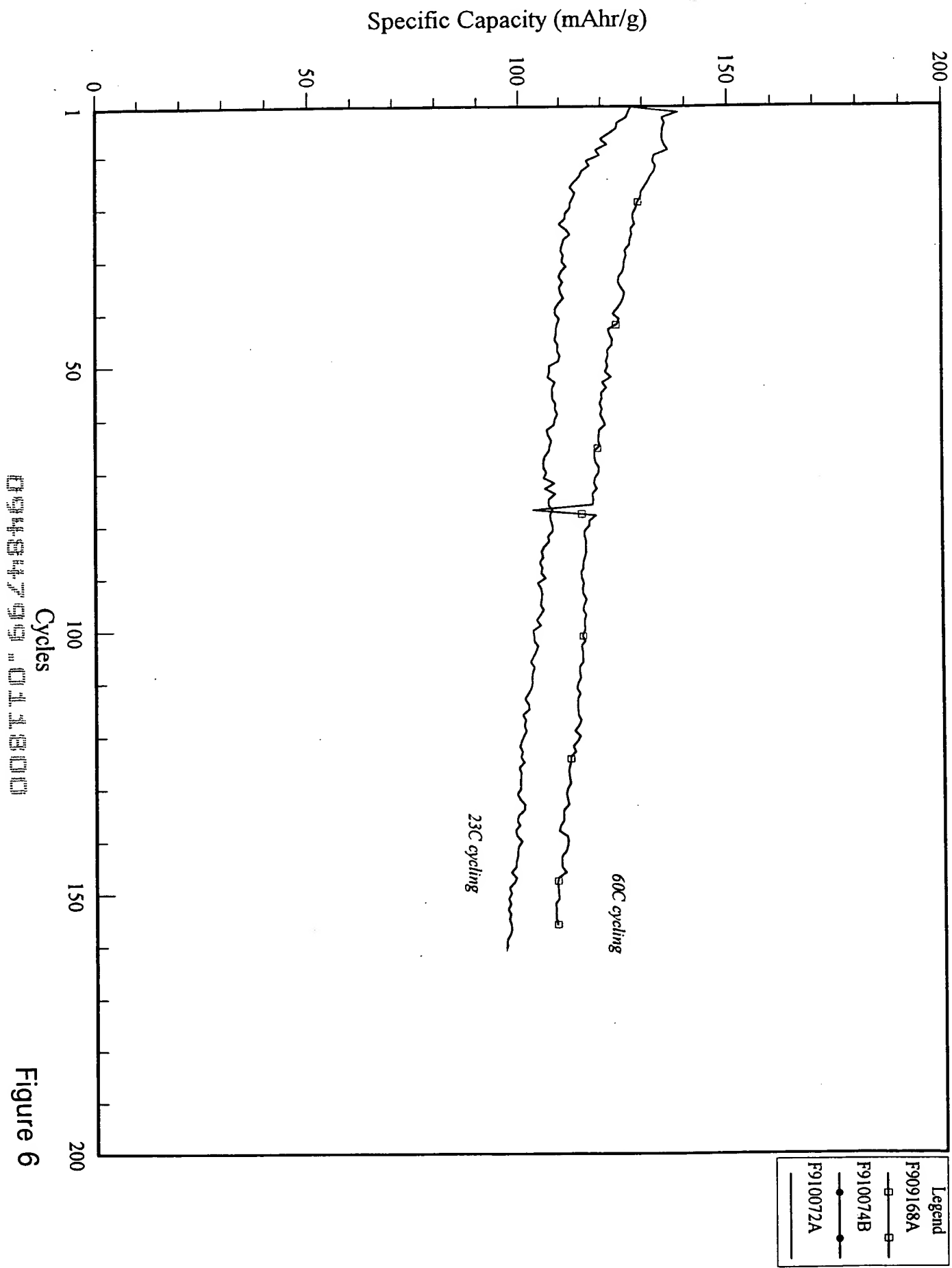


Figure 6

$\text{LiFe}_{0.8}\text{Mg}_{0.2}\text{PO}_4$ 2.5 - 4.0 V

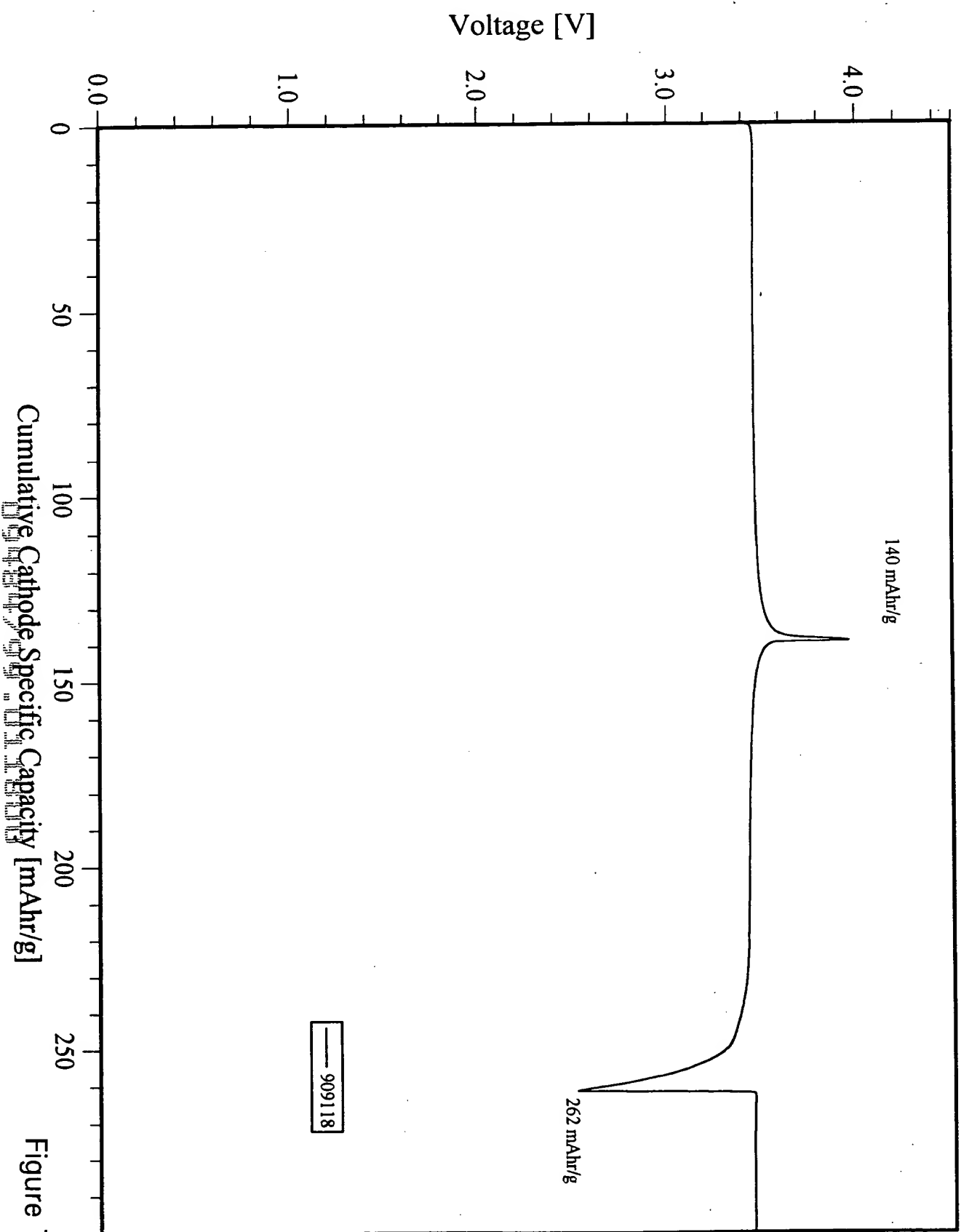


Figure 7

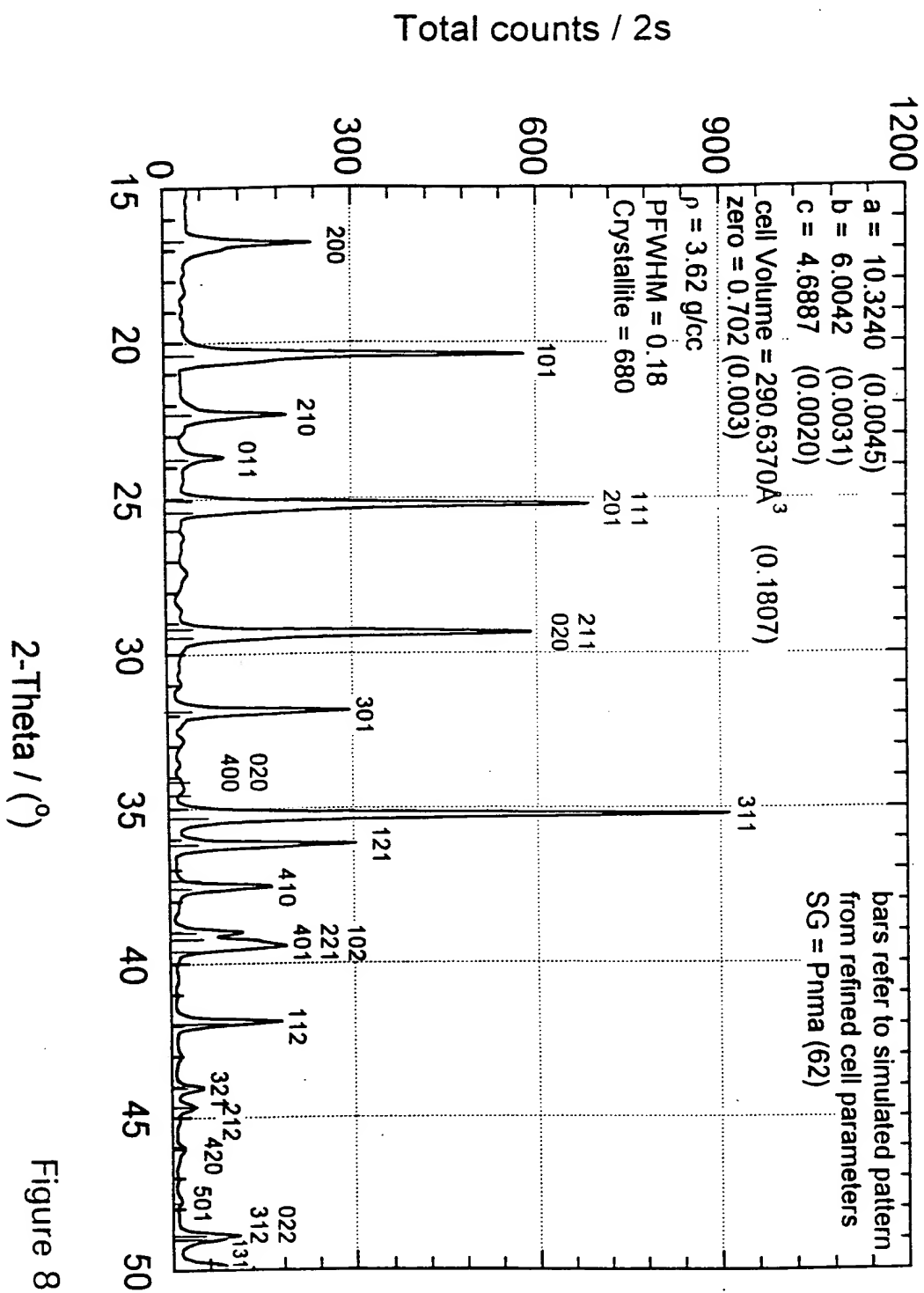
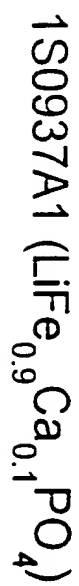


Figure 8

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LiFe_{0.8}Ca_{0.2}PO₄ 2.5 - 4.0 V

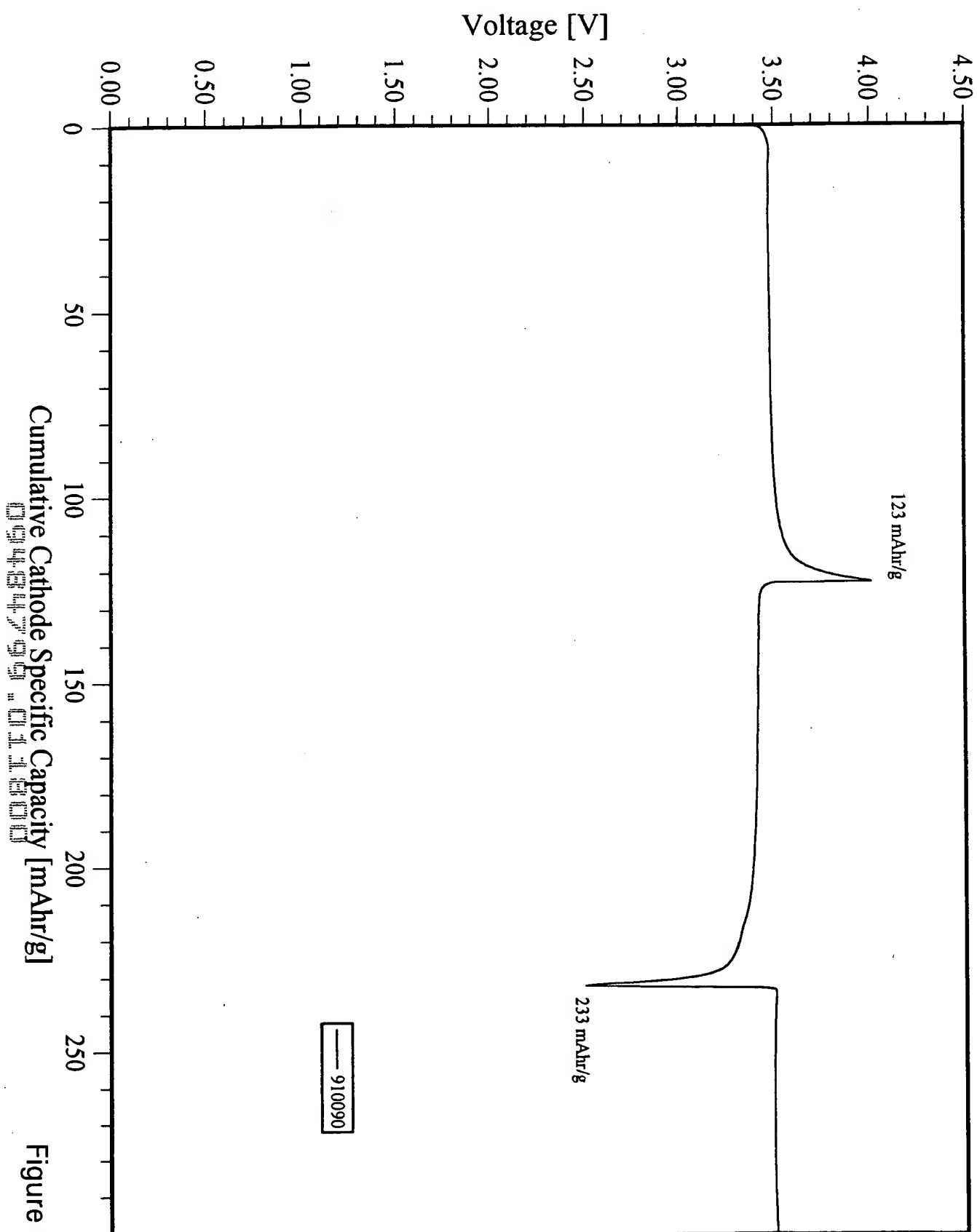


Figure 9

LiFe_{0.8}Zn_{0.2}PO₄ 2.5 - 4.0 V

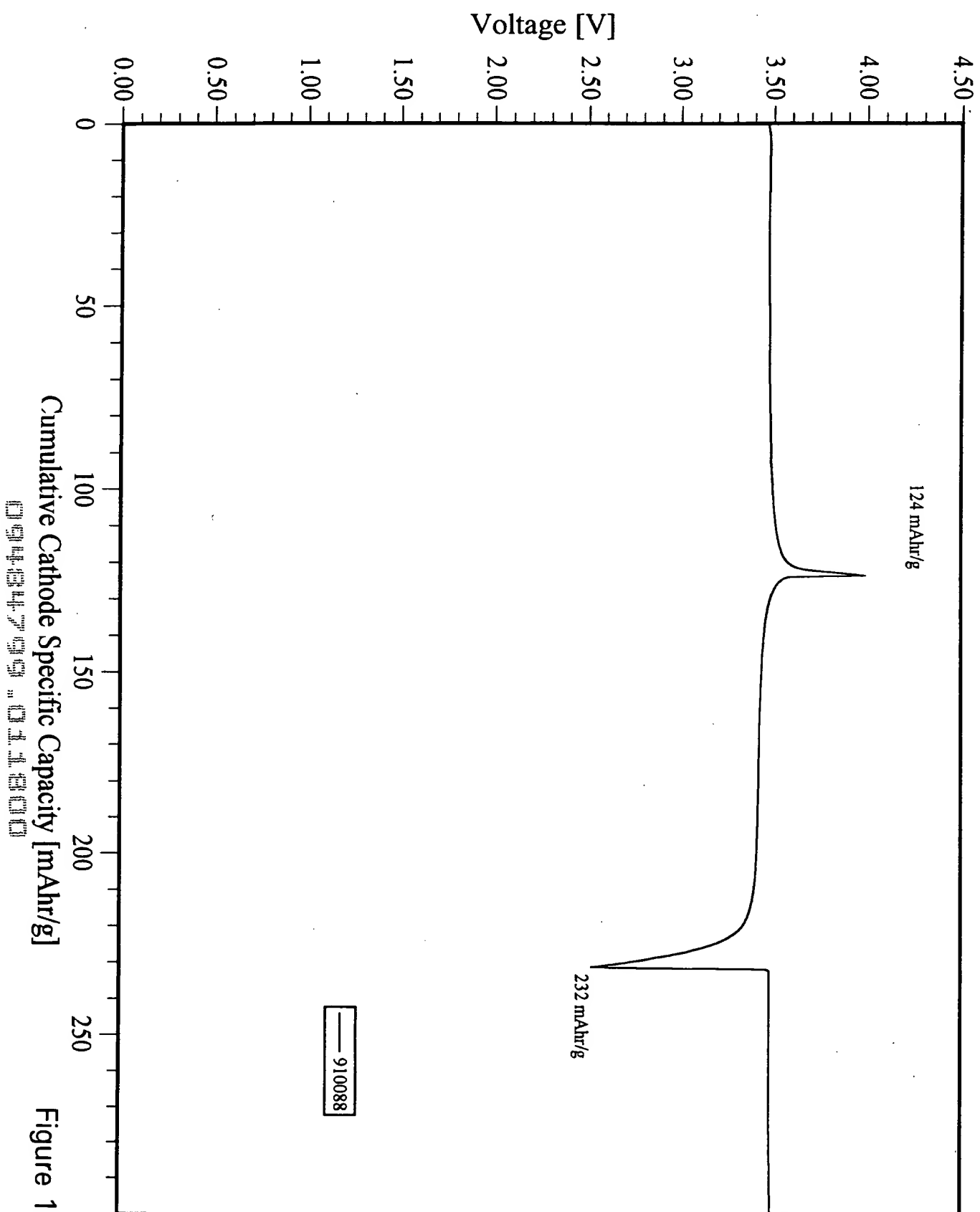
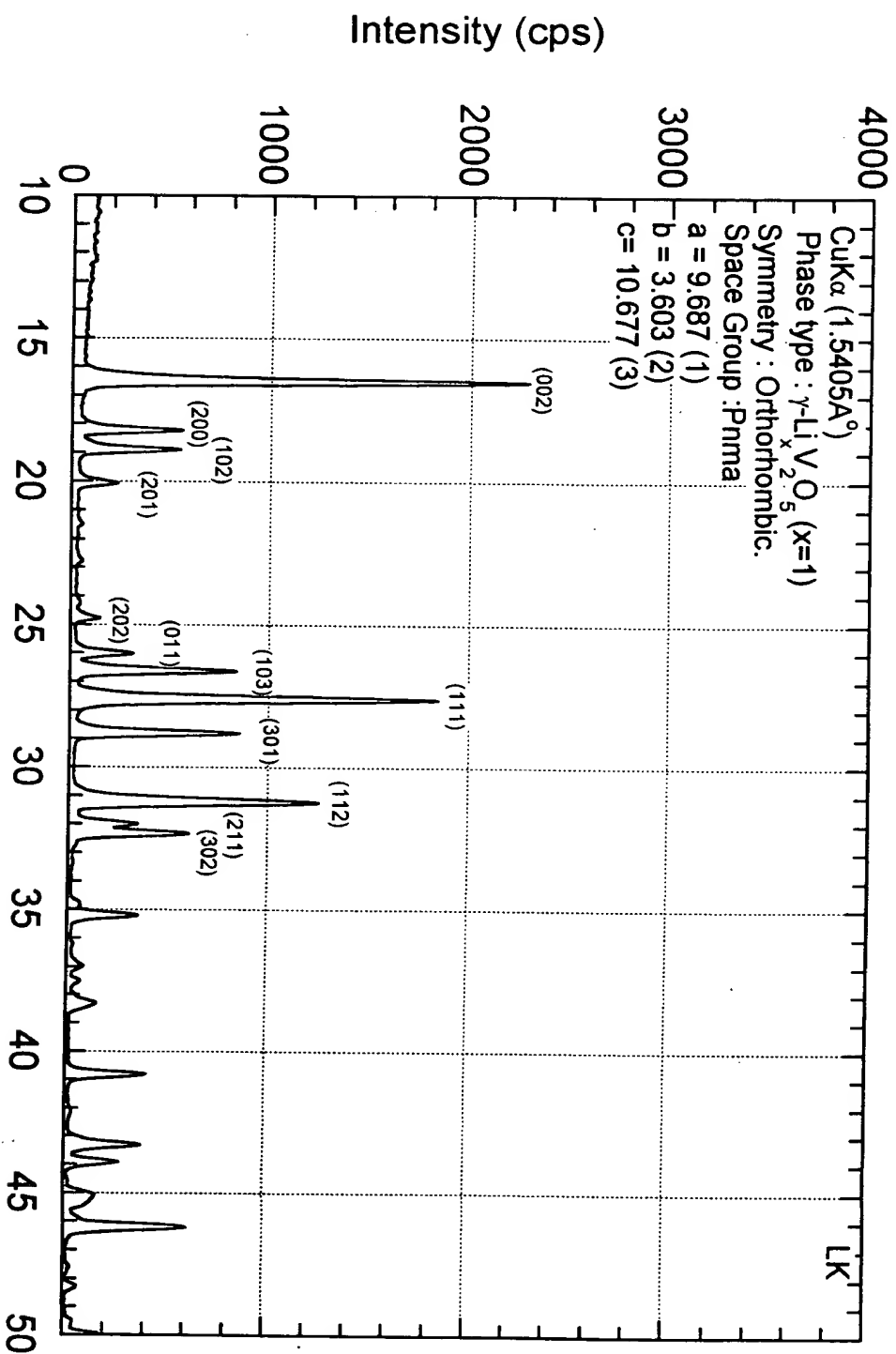


Figure 10

gamma- $\text{Li}_x\text{V}_2\text{O}_5$ - carbo-thermal



2-theta (°)

Figure 11

094434799, 0112000

gamma-LiV₂O₅ Synthesized by Carbothermal Reduction Method

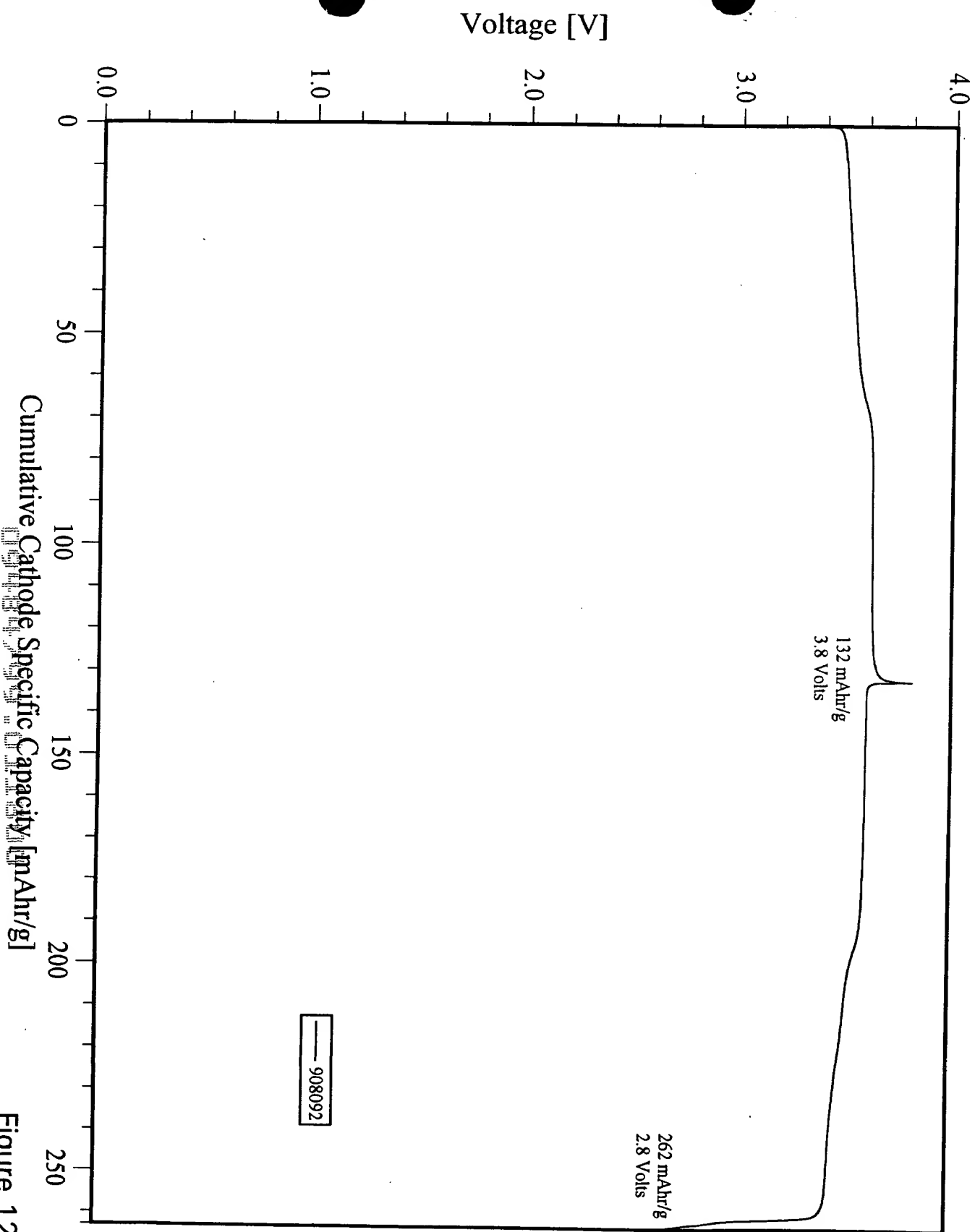


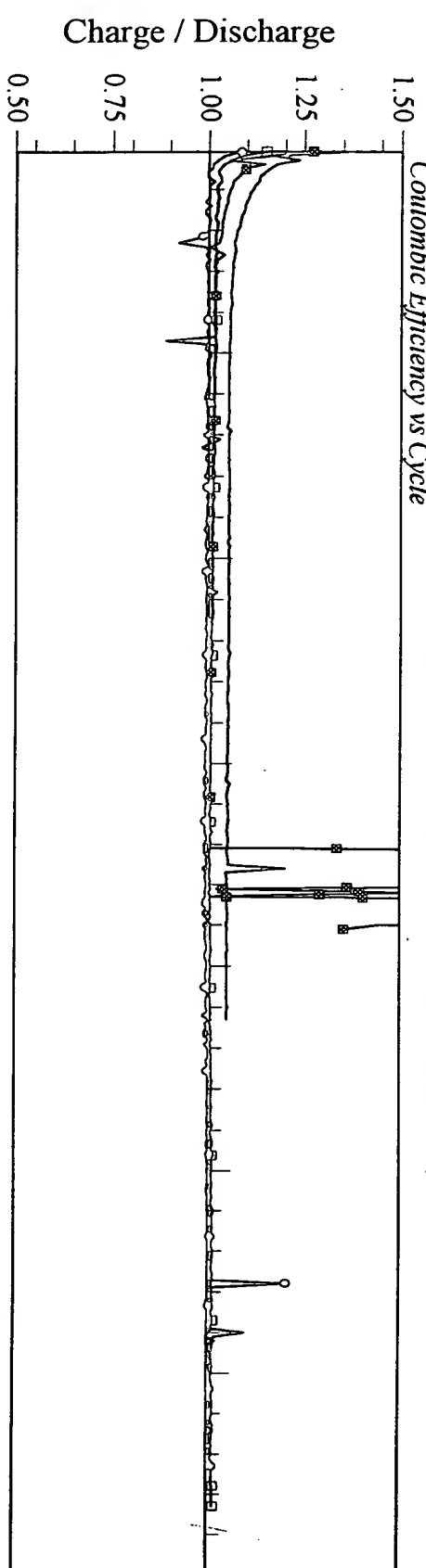
Figure 12

gamma-LiV₂O₅ vs Li

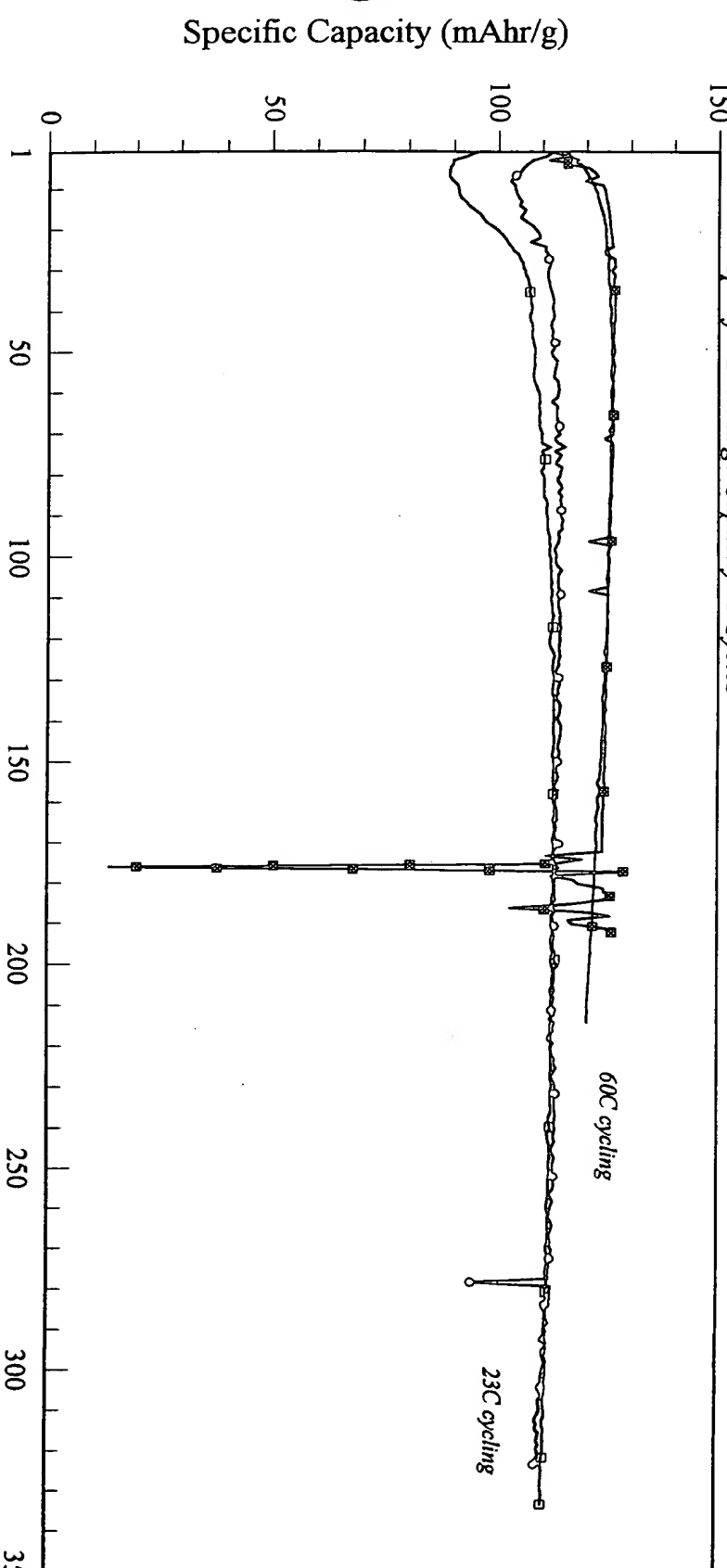
~C/2 rate, 3.0-3.75V

Carbothermal Reduction Method

Coulombic Efficiency vs Cycle



Cathode Specific Discharge Capacity vs Cycles

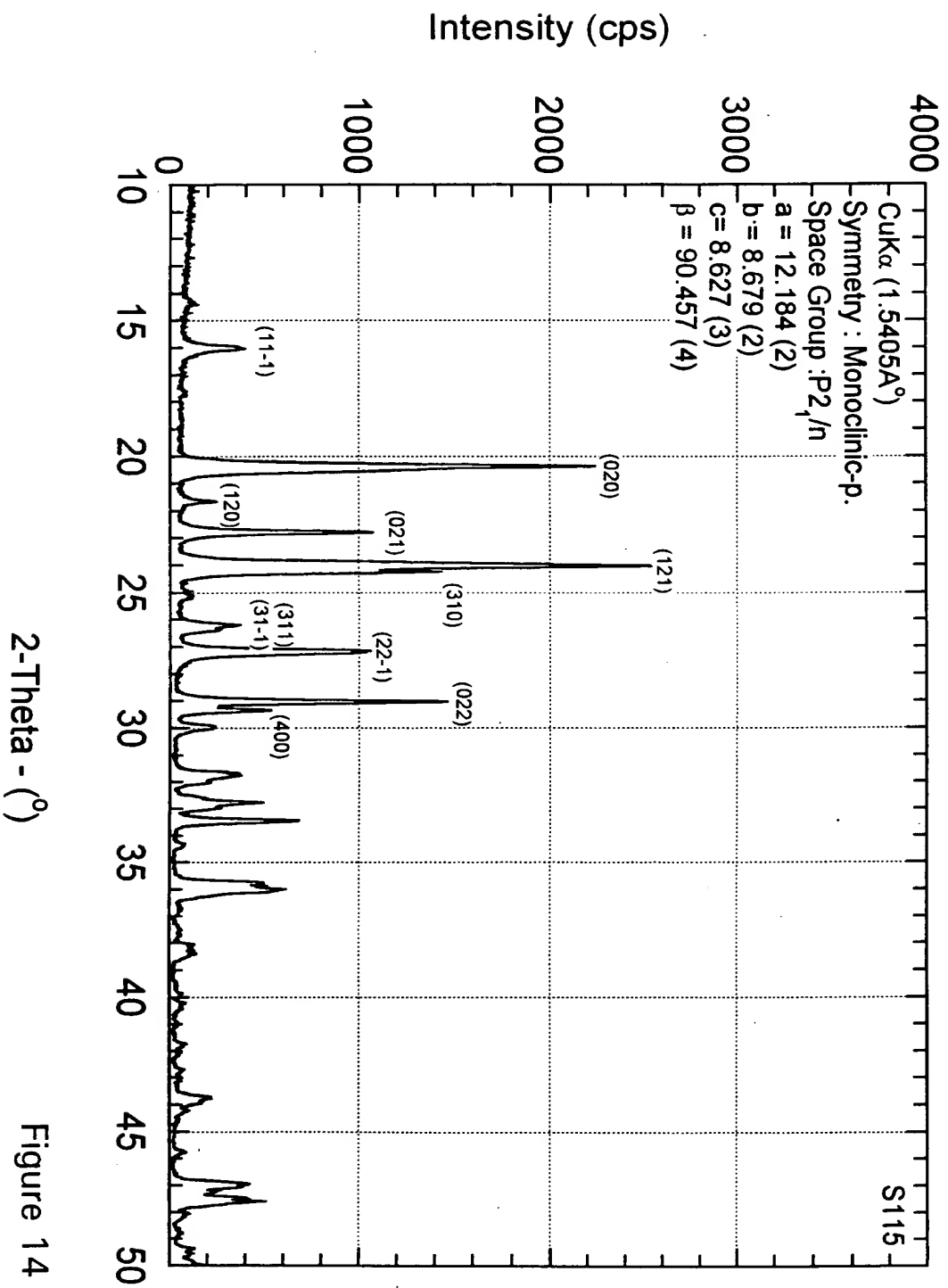


Legend	
V905134A	—□—
V905163A	—○—
V906065A	—●—
V906066A	—■—

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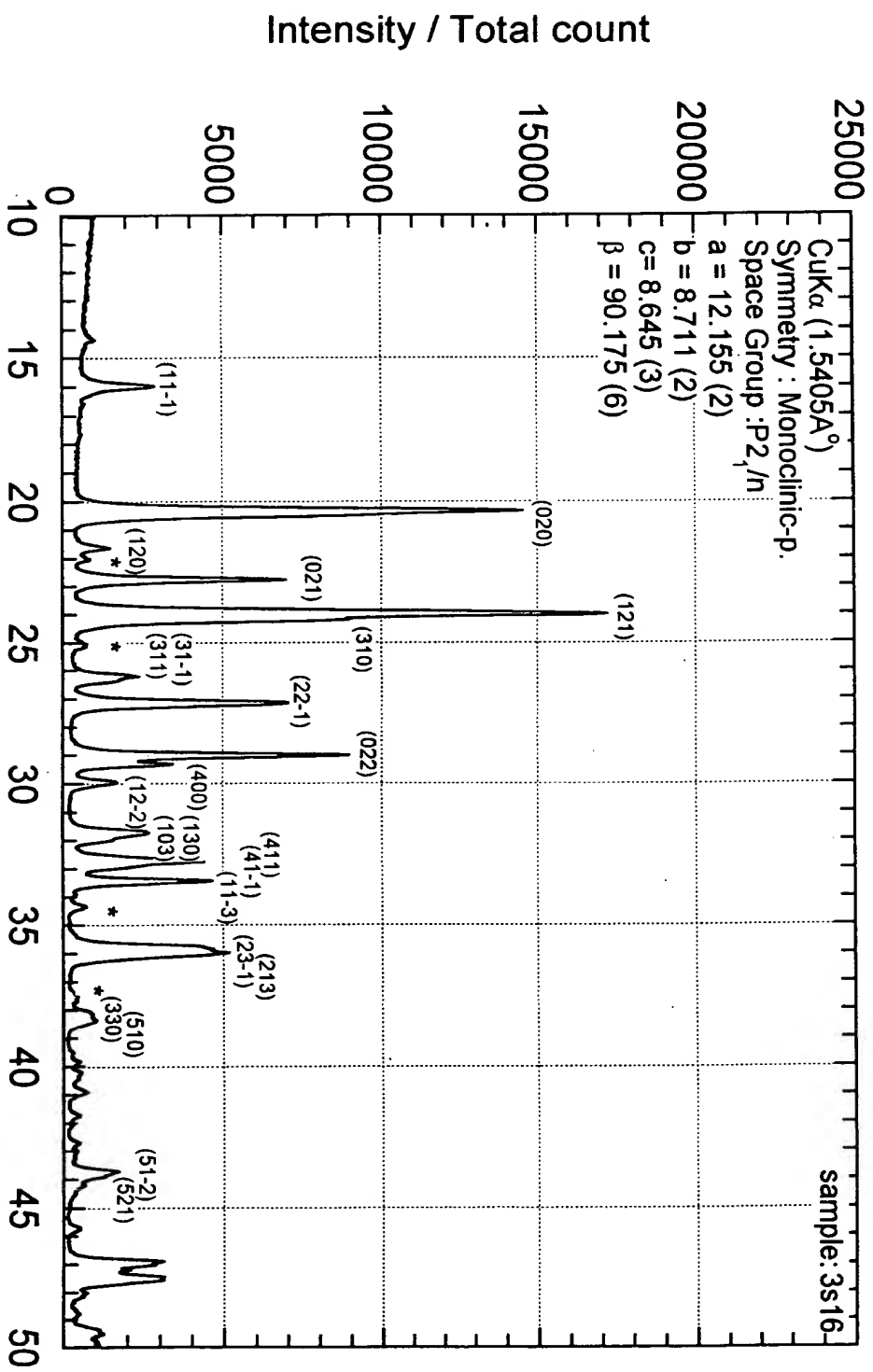
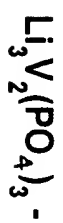
Figure 13

$\text{Li}_3\text{V}_2(\text{PO}_4)_3$ - carbo-thermal



2-Theta - ($^\circ$)

Figure 14



$\text{Li}_3\text{V}_2(\text{PO}_4)_3$ Synthesis by Carbothermal Reduction Method 13.8 mg active

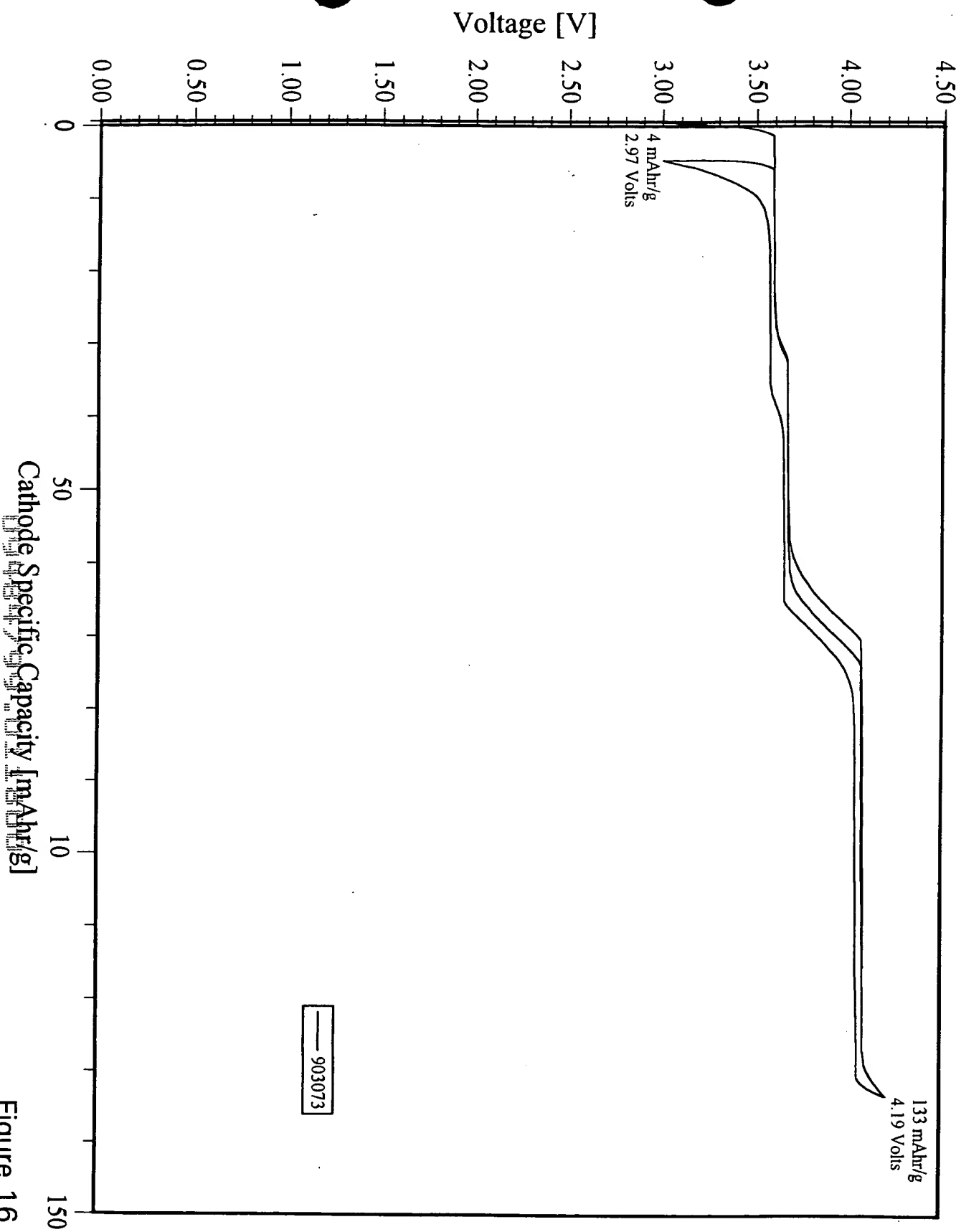
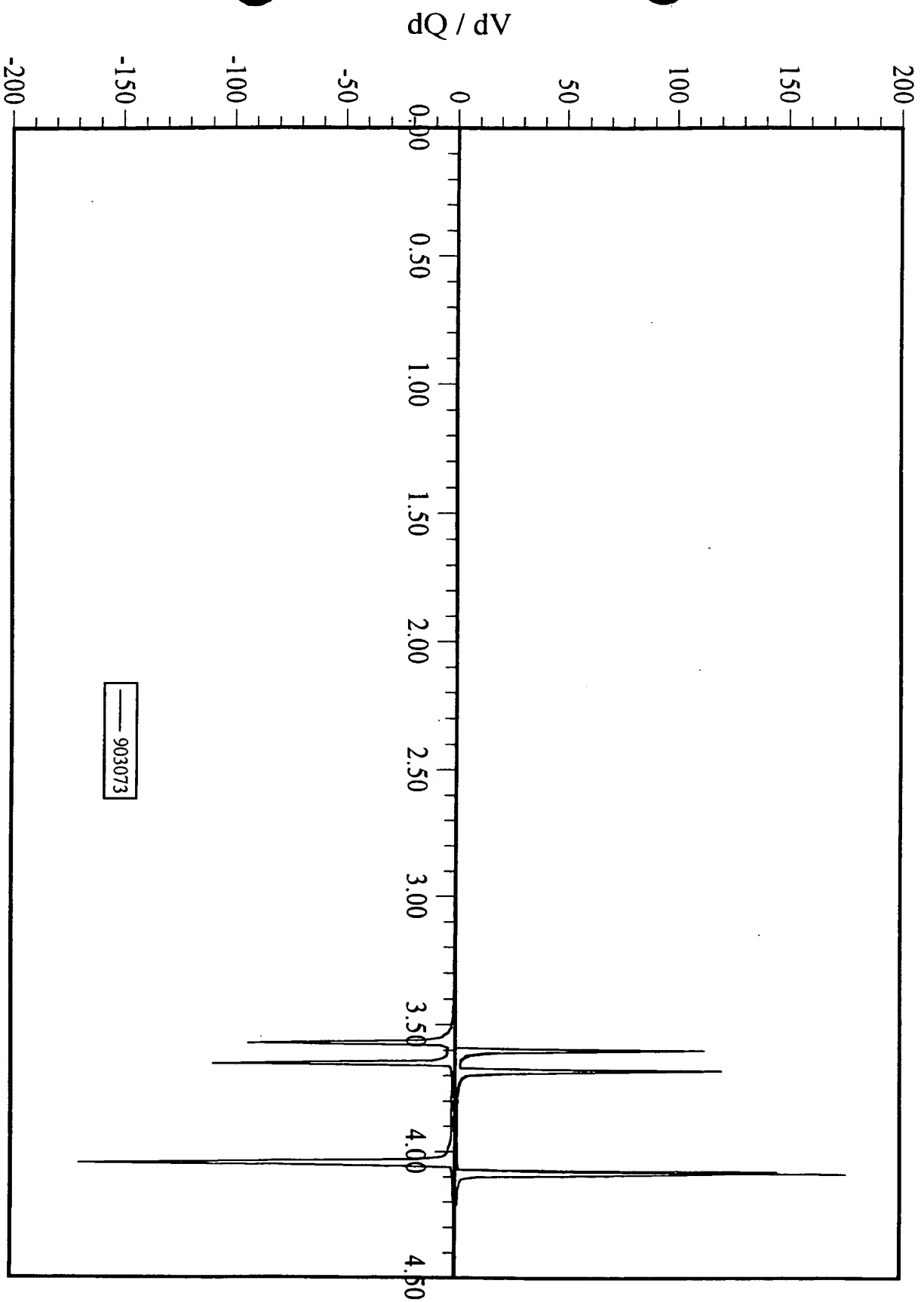


Figure 16

Li₃V₂(PO₄)₃ Synthesis by Carbothermal Reduction Method



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Figure 17

Carbothermal LiMg_{0.2}Fe_{0.8}PO₄ vs Li

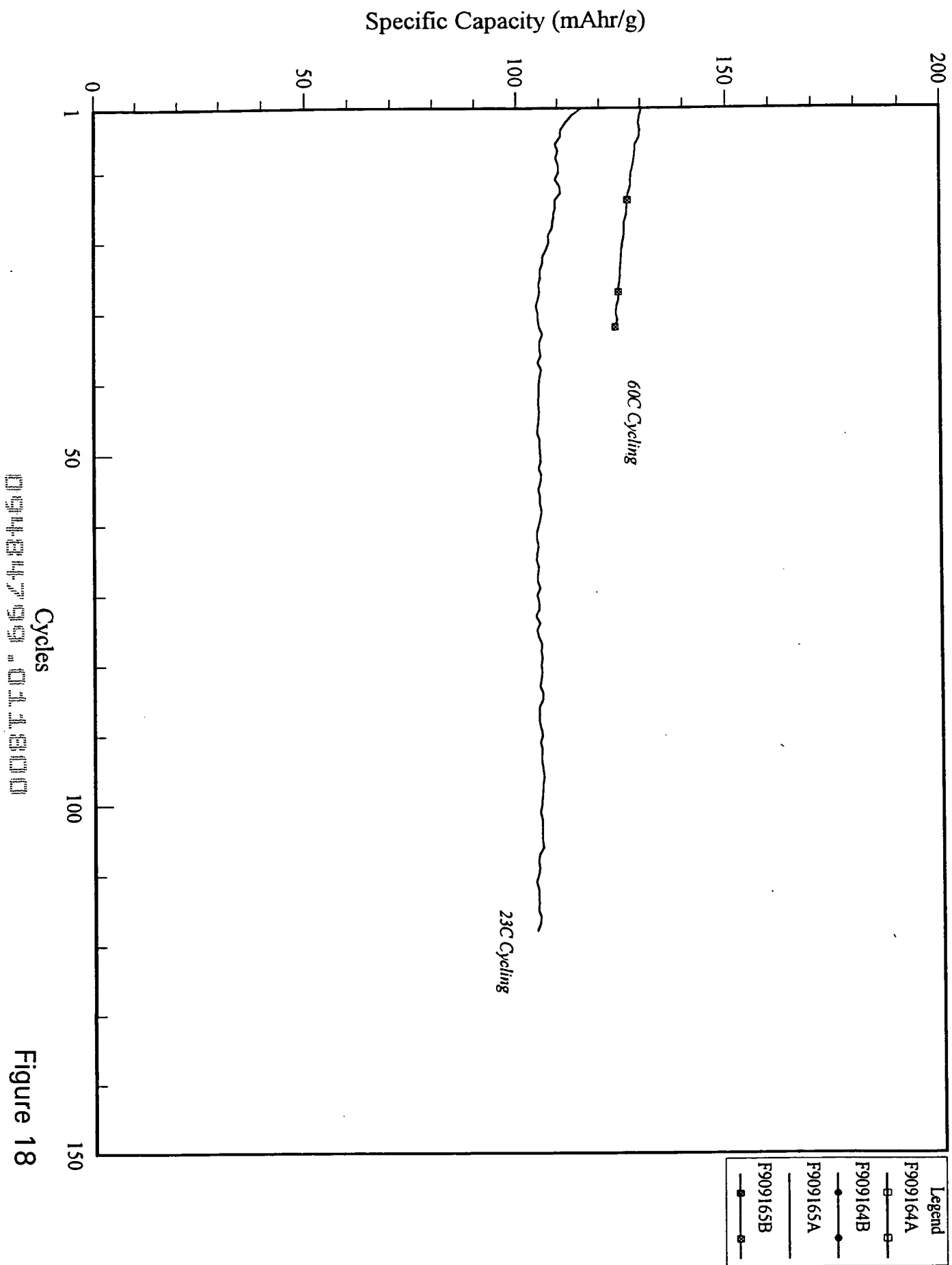


Figure 18

Voltage Profile for LiMg_{0.1}Fe_{0.9}PO₄ vs MCMB

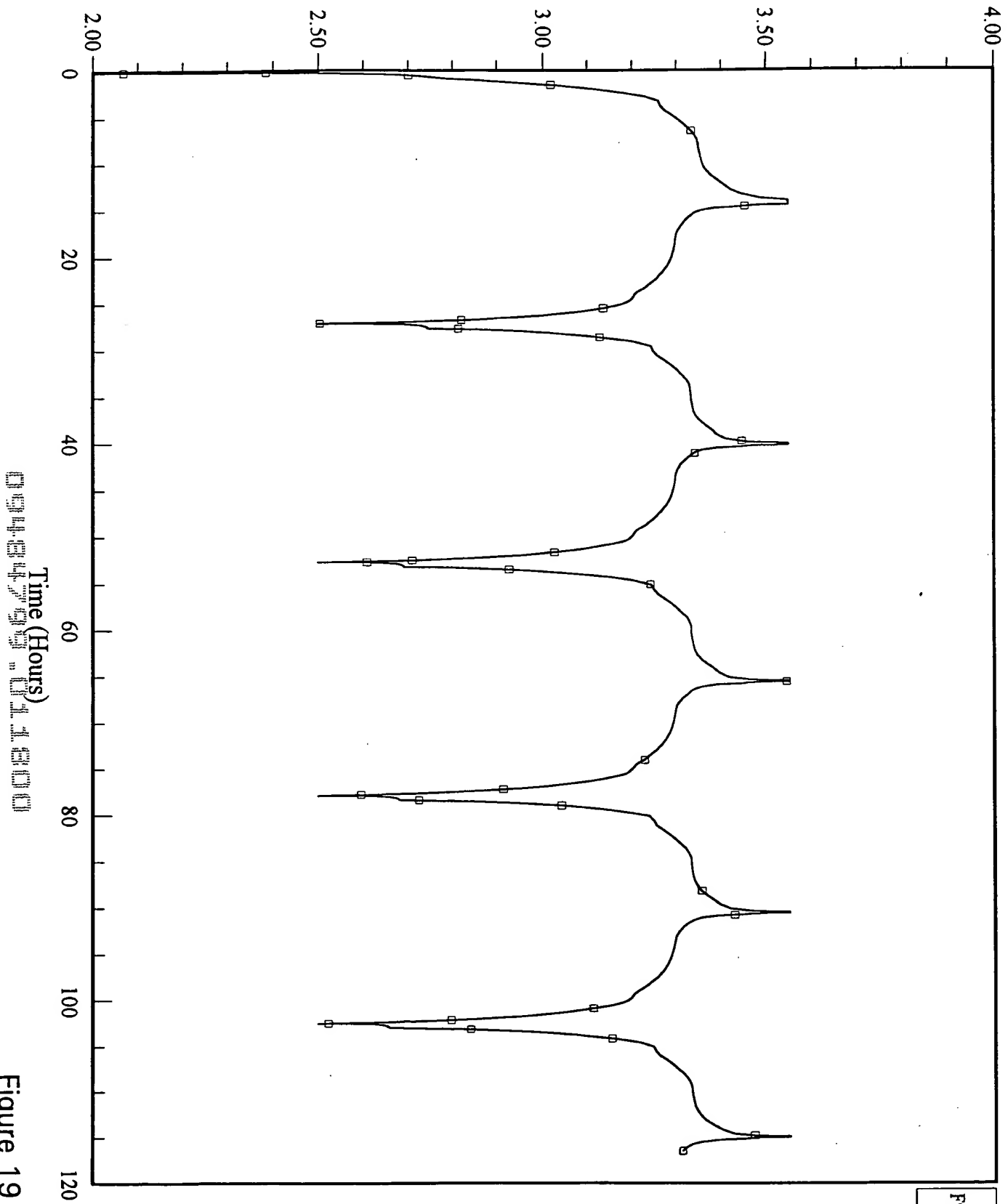


Figure 19

Carbothermal LiMg_{0.1}Fe_{0.9}PO₄ vs MCMIB

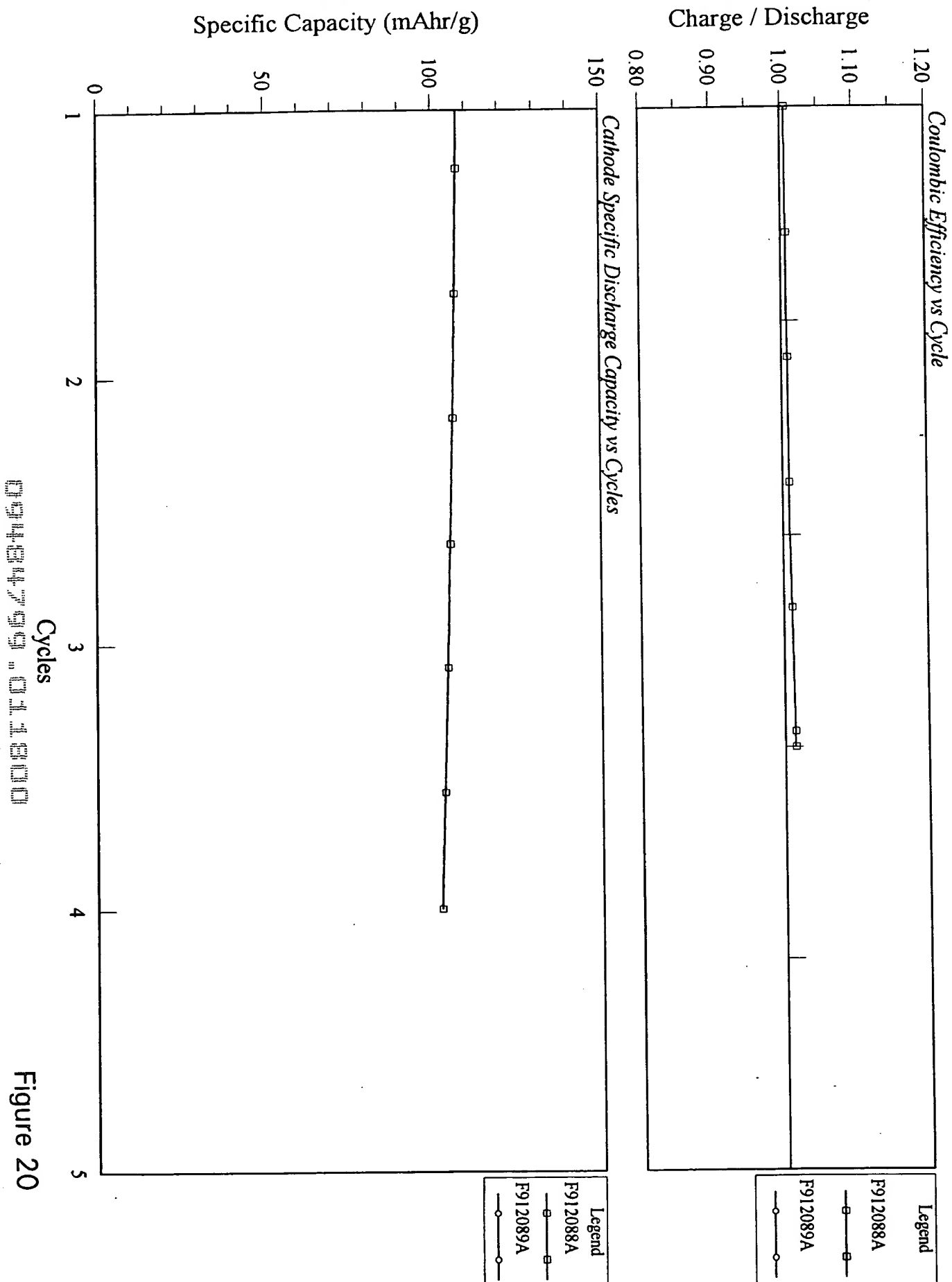


Figure 20

Carbothermal LiV₂O₅/MCMCB2528 2.5-3.65 V
gamma-LiV₂O₅

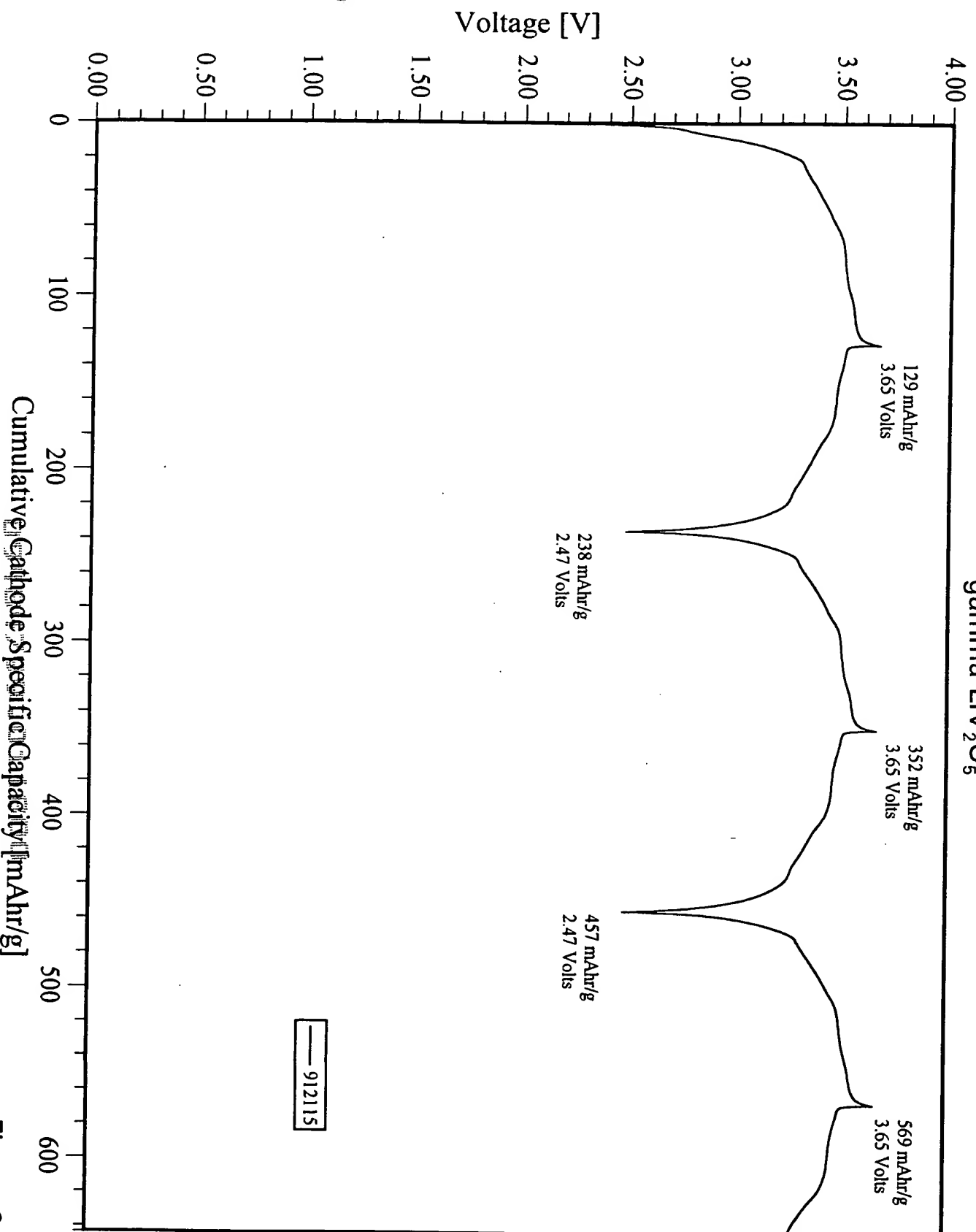


Figure 21

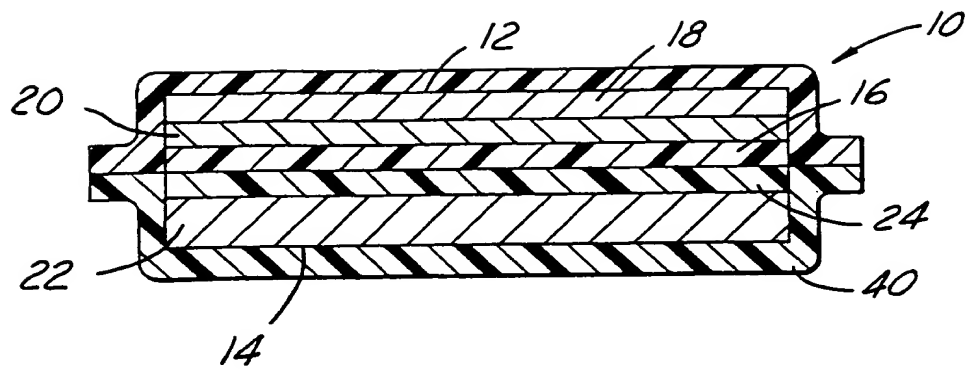


Figure 22

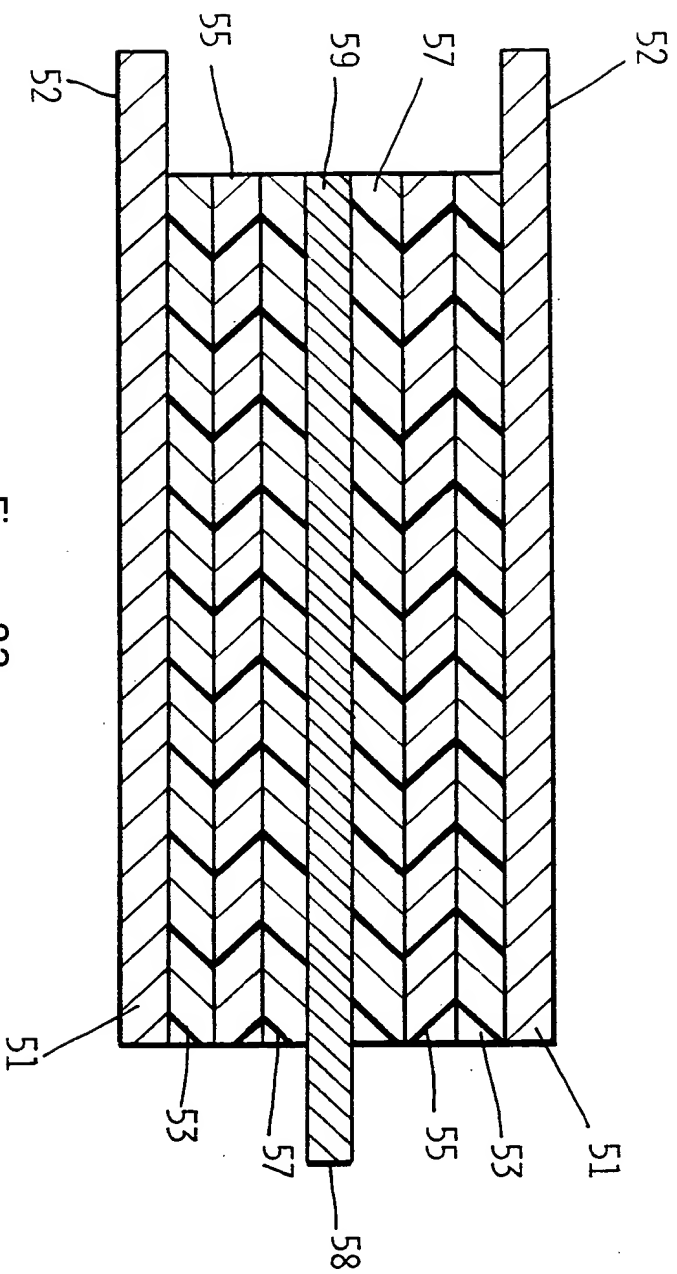


Figure 23